

What is claimed is:

- 1 1. A brake backing plate comprising:
2 a friction surface for receiving a friction pad material thereon; and
3 multiple protrusions protruding out of the friction surface, one or more of
4 which protrusions have an enlarged section for facilitating engagement between
5 the friction surface and the friction pad material.
- 1 2. The brake backing plate as claimed in claim 1 wherein each protrusion has
2 a proximal end where the protrusion is protruding out of the friction surface and a
3 distal end opposing to the proximal end, and the enlarged section is formed at the
4 distal end of one or more protrusions.
- 1 3. The brake backing plate as claimed in claim 1 wherein the enlarged
2 section is deformed to have an enlarged cross sectional area.
- 1 4. The brake backing plate as claimed in claim 1 wherein the enlarged
2 section is enlarged in generally parallel to the friction surface.
- 1 5. The brake backing plate as claimed in claim 1 wherein the enlarged
2 section has a flat surface.
- 1 6. A brake backing plate treating apparatus comprising:
2 a protrusion forming unit having multiple blades for forming multiple
3 protrusions on a friction surface of a brake backing plate which receives a friction
4 pad material thereon; and
5 a deforming unit for deforming one or more protrusions formed by the
6 protrusion forming unit to provide an enlarged section on one or more protrusions
7 for facilitating engagement between the friction surface and the friction pad
8 material.

1 7. The brake backing plate treating apparatus as claimed in claim 6 wherein
2 each protrusion has a proximal end where the protrusion is protruding out of the
3 friction surface and a distal end opposing to the proximal end, and the deforming
4 unit comprises a deforming plate for deforming the distal end of one or more
5 protrusions.

1 8. The brake backing plate treating apparatus as claimed in claim 7 wherein
2 the deforming plate is activated to press the distal end of one or more protrusions.

1 9. The brake backing plate treating apparatus as claimed in claim 7 wherein
2 the protrusion forming unit has a press for pressing the multiple blades onto the
3 friction surface of the brake backing plate, and the deforming plate is activated by
4 the press.

1 10. The brake backing plate treating apparatus as claimed in claim 7 wherein
2 the position of the deforming plate is adjustable relative to the friction surface of
3 the plate.

1 11. The brake backing plate treating apparatus as claimed in claim 6 further
2 comprising a conveyer for conveying brake backing plates from the protrusion
3 forming unit to the deforming unit.

1 12. A method for treating brake backing plates, the method comprising steps
2 of:

3 forming multiple protrusions on a friction surface of a brake backing plate
4 which receives a friction pad material; and

5 deforming one or more protrusions to provide an enlarged deformed
6 section on the one or more protrusions for facilitating engagement between the
7 friction surface and the friction pad material.

1 13. The method as claimed in claim 12 wherein each protrusion has a proximal
2 end where the protrusion is protruding out of the friction surface and a distal end

3 opposing to the proximal end, and the deforming step presses the distal end of
4 one or more protrusions.

1 14. The method as claimed in claim 13 wherein the deforming step presses
2 the distal end of one or more protrusions on a brake backing plate simultaneously
3 with the forming step forms protrusions on a different brake backing plate.

1 15. The method as claimed in claim 12 wherein the forming step displaces
2 portions of the friction surface to form protrusions and corresponding recesses.

1 16. The method as claimed in claim 12 further comprising a step of conveying
2 the brake backing plate after the forming step to perform the deformation step on
3 the brake backing plate.
